

Bachelor of Engineering (Honours) (Mining) with Bachelor of Mathematical and Computer Sciences - Mathematics Major – All Majors – Semester 1 Start

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Bachelor of Engineering (Honours) (Mining)
with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	General Elective <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1001 Introduction to Engineering <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering <input type="checkbox"/>	Level 1 Engineering Elective (see elective table) <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2001 Strength of Materials <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	General Elective <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	MINING 3070 Resource Estimation <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MINING 3068 Mining Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 3073 Mine Planning <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	MINING 4106 Hard Rock Mine Design & Feasibility <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Year 5				
S 1	Mining Engineering Elective (see elective table) <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
S 2	Mining Engineering Elective (see elective table) <input type="checkbox"/>	Mining Engineering Elective (see elective table) <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Core Courses		Elective (see elective table)		Double Degree Courses

Electives Table

CHOOSE FROM THE FOLLOWING LEVEL 1 ELECTIVES

S1	ELEC ENG 1101	Electronic Systems	S2	CEME 1002 MECH ENG 1007	Introduction to Infrastructure Engineering Mechanics- Dynamics
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CHOOSE FROM THE FOLLOWING MINING ENGINEERING ELECTIVES

TBC	ENG 4011 MINING 4107 MINING 4110 MINING 4112 MINING 4113 MINING 4114	Engineering Geology Surface Mining Systems Mine Asset Management & Services Advanced Mine Geotechnical Engineering Advanced Mine Ventilation Simulation & Animation for Mining Engineers
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NOTES

EAL: Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering

Internship: All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies. The 8 weeks of internship must be supervised by a qualified engineer and may be completed in one placement or a series of placements. The Faculty recommends students undertake internships upon commencement of third year engineering courses. Internships are self-sourced and resources are available through [Careers Service](#). Register with CareerHub to access a database where opportunities are posted.

General electives:

How to choose an elective course in your area of interest?

Please refer to the steps via the link: <https://ecms.adelaide.edu.au/study-with-us/student-support/enrolment>

Program Rules: For academic program rules please refer to the following website:

<https://calendar.adelaide.edu.au/faculty/ecms>

Information and Enrolment Advice:

Ask ECMS

Email: askecms@adelaide.edu.au

Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>

Bachelor of Engineering (Honours) (Mining) - Mine Automation Major
with Bachelor of Mathematical and Computer Sciences - Mathematics Major

Year 1				
S 1	MATHS 1011 Mathematics IA <input type="checkbox"/>	ENG 1003 Programming (Matlab and Excel) <input type="checkbox"/>	CEME 1004 Engineering Mechanics-Statics <input type="checkbox"/>	ELEC ENG 1101 Electronic Systems <input type="checkbox"/>
S 2	MATHS 1012 Mathematics IB <input type="checkbox"/>	ENG 1001 Introduction to Engineering <input type="checkbox"/>	MINING 1011 Introduction to Mining Engineering <input type="checkbox"/>	MECH ENG 1007 Engineering Mechanics - Dynamics <input type="checkbox"/>
Year 2				
S 1	MATHS 2106 Differential Equations for Engineers II <input type="checkbox"/>	CEME 2001 Strength of Materials <input type="checkbox"/>	MECH ENG 2021 Thermo-Fluids I <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
S 2	MATHS 2107 Statistics & Numerical Methods II <input type="checkbox"/>	GEOLOGY 2504 Economic & Mine Geology II <input type="checkbox"/>	MECH ENG 2101 Mechatronics IM <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>
Year 3				
S 1	ENG 3004 Systems Engineering and Industry Practice <input type="checkbox"/>	MINING 3070 Resource Estimation <input type="checkbox"/>	MINING 3071 Mining Systems <input type="checkbox"/>	MINING 3072 Mining Geomechanics <input type="checkbox"/>
S 2	ENG 3005 Research Method & Project Management <input type="checkbox"/>	MINING 3068 Mining Ventilation <input type="checkbox"/>	MINING 3069 Rock Breakage <input type="checkbox"/>	MINING 3073 Mine Planning <input type="checkbox"/>
Internship				
All Engineering students commencing from 2019 are required to complete a minimum of 8 weeks of internship during the course of their studies – see note below.				
Year 4				
S 1	ENG 4001A Research Project Part A <input type="checkbox"/>	MINING 4102 Mine Geotechnical Engineering <input type="checkbox"/>	MINING 4104 Socio-Environmental Aspects of Mining <input type="checkbox"/>	MINING 4106 Hard Rock Design & Feasibility <input type="checkbox"/>
S 2	ENG 4001B Research Project Part B <input type="checkbox"/>	MINING 4101 Mine Management <input type="checkbox"/>	MINING 4111 Coal Mine Design & Feasibility <input type="checkbox"/>	ELEC ENG 2104 Digital Signal Processing <input type="checkbox"/>
Year 5				
S 1	MECH ENG 3106 Mechatronics II <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level II or III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
S 2	MINING 4115 Automation in Mining <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>	Level III Mathematics Elective <input type="checkbox"/>
Core Courses		Double Degree Courses		Major Courses

NOTES

^ **EAL:** Unless exempted, International students are required to take ENG 1011 Introduction to Engineering - EAL in lieu of ENG 1001 Introduction to Engineering

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Mathematics Electives may be chosen from those listed in the program rules for the Bachelor of Mathematical and Computer Sciences. Students must complete a major or double major in accordance with the Bachelor of Mathematical and Computer Science program rules

Program Rules: For academic program rules please refer to the following website:
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Information and Enrolment Advice:

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Website: <https://ecms.adelaide.edu.au/study-with-us/student-support>